

Abstract of the Disclosure

The invention provides a method and process for transmitting data without using additional CPU cycles and memory accesses to calculate checksums. The transmitting device obtains data from internal or external data source and stores data in memory. Data is then divided into zones and checksums are calculated for each zone. Checksums are recorded on a checksum array. A data pointer containing an address for data stored in memory, a description of the data and address for the checksum array is transferred through data transfer protocol to network and transmission layers. Network and transmission layers are then able to access and send data without having to either copy data through data transfer protocol to network and transfer layers or read all of the data to calculate the checksums. This method and process uses fewer CPU cycles and memory accesses to transmit data and is, therefore, more efficient than the prior art.